

Supplementary Material

Picking Up the Pieces – Harmonising and Collating Seabed Substrate Data for European Maritime Areas

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Table S1. The Grain size ranges in different classification systems.

| Grain size Ø (mm) | EMODnet FOLK | MNCR | Udden-Wentworth | GTK & SGU | GEUS | VSEGEI | EGK Raukas 1981 | Lithuania | Ukraine | Romania | SHOM | Larsonneur (1979) | Alaisi | Augris (1990-2013) | Simplet (2011) | Gautier (2009) | BRGM | Berneé (1986-1987) | Hily (1976) | Laffont (1989) | Comments | | | | | | | | | | | | | | | |
|----------------------|-----------------|-----------------|-----------------------|-----------------------|-------------------|------------------------|---------------------|-------------------|-------------------|----------------------|--------------------------|---|----------------|----------------------------|----------------------------|-------------------------|------------------------|---|-----------------------|----------------|--|--|--|--|-----------------|-----------------------|------------------|--------------------|--|--|---------------------------------------|--|--|--|--|--|
| >800 | Boulders (>256) | Boulder (>256) | Boulder (>600) | Boulder (>600) | Boulder (>200) | Boulders (>100) | Boulders (>1000) | Boulder (>100) | Boulders (>10) | | Callouts (pebbles), >200 | Callouts (pebbles), Coquilles (Shell), >200 | | Blocs (boulder, >600) | Galets (cobble, >64) | | Galets (gravel, >64) | Galets, graviers (gravel to cobble, >2) | Graviers (gravel, >2) | | All defined boulder categories fall into this group. Overlap with large stones. Some national classifications include smaller particles in category Boulders (GTK, GEUS, VSEGEI, Ukraine) | | | | | | | | | | | | | | | |
| 600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 256 | Gravel (2-256) | Cobble (64-256) | Small Stones (60-200) | Small Stones (60-200) | Stone (20-200) | | | | | No information | Graviers (gravel, 2-200) | No information | No information | Cailloutis (pebble, 20-64) | Cailloutis (pebble, 16-64) | Graviers (gravel, 4-64) | Graviers (gravel, 2-4) | Graviers (gravel, >2) | Graviers (gravel, >2) | No information | Almost all gravels belong here. Also stones, cobbles and pebble sizes fit to gravel grain sizes. Large stones overlap with boulder sizes. Some boulder sizes (GEUS, VSEGEI, Ukraine) overlap with gravel category. | | | | | | | | | | | | | | | |
| 200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | Sand (0.0625-2) | Coarse Sand (1-4) | Very coarse sand (1-2) | Coarse sand (0.6-2) | Sand (0.06-2) | Sand (0.05-2) | | | | | | | | | | | | | | | | Sand (0.0625-2) | Sables (Sand, 0.05-2) | Sables grossiers | coarse sand, 0.5-2 | | | Sables grossiers (coarse sand, 0.5-2) | | | | | Quite alright. Some problems with fine sand grain sizes as with MNCR Coarse sand grains. VSEGEI sand includes smaller particles. |
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.125 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0625 | Mud (<0.0625) | Mud (<0.0625) | Silt (0.002-0.06) | Silt (0.002-0.06) | Silt (0.002-0.06) | Silt (0.002-0.06) | Silt (0.002-0.06) | Silt (0.002-0.06) | Silt (0.002-0.06) | Silt (0.0039-0.0625) | Silt (<0.0625) | Silt (<0.0625) | Silt (<0.0625) | Silt (<0.0625) | Silt (<0.0625) | Silt (<0.0625) | Silt (<0.0625) | Silt (<0.0625) | Silt (<0.0625) | Silt (<0.0625) | | | | | | | | | | | | | | | | |
| 0.06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0039 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Baltic and North Sea | | | | | | | | | | | Black Sea | | | French classifications | | | | | | | | | | | | | | | | | | | | | | |